

ART 34 AMDT

WHAT IS CLAIMED IS:

1. (Amended) A ball screw comprising:
 - a screw shaft having a ball rolling groove on an outer periphery thereof;
 - 5 a plurality of balls rollable along said ball rolling groove;
 - a nut member engaged with said screw shaft through said balls;
 - a lubricant supply mechanism provided at each axial
 - 10 end of said nut member; and
 - a seal member provided outside said lubricant supply mechanism;
 - wherein said lubricant supply mechanism has an application member whose distal end is in sliding contact
 - 15 with said ball rolling groove, said application member being impregnable with lubricant, so that the lubricant is supplied to said ball rolling groove through said application member, and
 - wherein an oil lip member is provided in a vicinity
 - 20 of said application member with a predetermined gap provided between itself and said application member in a direction of said ball rolling groove, said oil lip member having a distal end placed in sliding contact with a surface of said ball rolling groove to scrape the
 - 25 lubricant off said ball rolling groove, and said oil lip member being made of a material that is not impregnable with the lubricant.
2. A ball screw according to claim 1, wherein said

oil lip member is secured to a mount portion of the application member of said lubricant supply mechanism through a leaf spring so that the distal end of said oil lip member is always kept in sliding contact with the surface of said ball rolling groove by elastic force of
5 said leaf spring.

3. A ball screw according to claim 1, wherein said oil lip member has a sliding contact portion that comes in sliding contact with the surface of said ball rolling
10 groove, said sliding contact portion being made of a wear-resistant resin material, and said sliding contact portion being integrally provided at a distal end of an oil lip body made of an elastic material,

said oil lip member being secured to a mount portion
15 of the application member of said lubricant supply mechanism through a support member so that a distal end of said sliding contact portion is always in sliding contact with the surface of said ball rolling groove.

4. (Amended) A ball screw comprising:
20 a screw shaft having a ball rolling groove on an outer periphery thereof;

a plurality of balls rollable along said ball rolling groove;

a nut member engaged with said screw shaft through
25 said balls;

a lubricant supply mechanism that supplies lubricant to a part of the ball rolling groove located in said nut member; and

a seal member provided at each end of said nut member;

wherein said seal member has an oil lip member whose distal end is always in sliding contact with a surface of said ball rolling groove to scrape the lubricant off said ball rolling groove, said oil lip member being provided at a predetermined angle α with respect to a radial direction of said screw shaft and at a predetermined lead angle θ with respect to a groove direction of said ball rolling groove.

5. A ball screw according to claim 4, wherein said oil lip member has a sliding contact portion that comes in sliding contact with the surface of said ball rolling groove, said sliding contact portion being made of a wear-resistant resin material, and said sliding contact portion being integrally provided at a distal end of an oil lip body made of an elastic material.